

Appendix A

COMMANDER'S JOB AID

INTELLIGENCE AND ELECTRONIC WARFARE (IEW)

Planning Phase

- Does the Situation Template (SITEMP) consider the NBC Threat?
- Do my priority intelligence requirements (PIR) include capability and intent:
 - Enemy nuclear delivery systems?
 - Enemy chemical delivery systems?
 - Enemy biological delivery systems?
- Does intelligence collection plan include NBC reconnaissance/templated areas?
- Did I provide any NBC-related assumptions for consideration in the plan:
 - Enemy use of NBC weapons to deny/restrict use of key terrain?
 - Enemy use of NBC weapons to cause casualties in forward elements?
 - Enemy use of NBC weapons against my trains to create additional logistical burdens?

Preparation Phase

- Has my chemical staff “activated” the NBCWRS?
 - Conducted communications checks?
 - Received and disseminated meteorological data (CDM and/or EDM)?
 - Posted current data on displays?
- Are chemical agent alarms, detector paper or RADIAC instruments deployed?

Execution Phase

- Has my unit executed the intelligence collection plan?
 - Contaminated areas identified and reported?
 - Do we know the type and extent of contamination?
- Is my chemical battle staff rapidly disseminating:
 - Hazard information (≤ 5 minutes after receipt)?
 - Meteorological information (≤ 30 minutes after receipt)?
- Am I effectively suppressing enemy RSTA with smoke?

COMMAND AND CONTROL (C2)

Planning Phase

- Does my plan consider mental stress of MOPP4?
 - Is the plan simple?
 - Is the plan well synchronized?
- Does my plan consider physiological degradation of MOPP4?
 - Work/rest plan?
 - Command drinking plan?
- Which net will I designate to pass NBC attack information?

Preparation Phase

- Have my subordinate leaders established work/rest and water plans?
- During rehearsals in MOPP4, was the planned operation well synchronized?
- Under a high nuclear threat, are all power, communications, and automated data processing cables buried? Have we turned off all nonmission essential electronics equipment and back-up power generators?
- Are situation maps posted and up to date?
- During rehearsals, did each battle staff element make appropriate responses to NBC events?

Execution Phase

- Have my subordinate leaders been enforcing sleep and water plans?
- Are situation maps and displays posted and up to date?
- Is my chemical battle staff providing me with periodic updates on:
 - NBC situation?
 - Smoke operations?
 - Chemical unit support?
- Since going into MOPP3 or 4 have I changed my way of doing business (i.e., Am I sleeping less, managing more closely, or delegating less than before)?

MANEUVER

Planning Phase

- Does my tactical plan take into account the trade-offs and risk:
 - Casualties from NBC weapons if I do not raise protection to MOPP3 or 4?
 - Casualties from enemy fires or heat stress if I do raise protection to MOPP3 or 4?

TC 3-10

- Does my tactical plan consider the degradation on operations caused by NBC conditions and wearing MOPP3 or 4?
 - Fewer enemy targets destroyed
 - Attacks can take longer
 - Direct fire weapon systems engage the enemy at shorter distances
 - Risk of fratricide increases
- Have I considered the use of smoke/obscurants to enhance my combat power against a technologically inferior force (See Table A-1 on page A-9)?

Preparation Phase

- During rehearsals in MOPP4, did we practice target acquisition?
 - Has my unit adequately rehearsed battle drills while wearing MOPP4?
 - During rehearsals in MOPP4, did I identify problems in the tactical plan?

Execution Phase

- Has my unit been able to maintain a high volume of fire or are very few weapon systems engaging the enemy?
 - Is the NBC condition imposing greater (or lesser) burdens on maneuver than I had planned? Should I issue a FRAGO to adapt?
 - Can I lower protection levels now and increase my unit's effectiveness?

MOBILITY/COUNTERMOBILITY/SURVIVABILITY (M/C/S)

Planning Phase

- Do planned march routes avoid known areas of contamination?
- Do planned march rates consider degradation caused by NBC conditions?
- Does my plan integrate camouflage, concealment, and deception (CCD) measures for passive defense and avoidance?
- Does my plan include integrating smoke to protect my force and defeat enemy reconnaissance, surveillance, and target acquisition (RSTA) systems?
- Did I provide guidance on acceptable levels of risk tied to key decision points or phases of the operation:
 - Operational exposure guidance?
 - MOPP analysis?
- Have I issued automatic masking criteria?
- Did I plan for road guides to help bypass contaminated areas?
- Does my plan include decontamination considerations?
 - Link-up points?
 - Water sources?
 - Replacement stocks of CDE?

Preparation Phase

- Has my unit adequately rehearsed NBC attack/survival drills?
 - React to chemical attack
 - React to biological attack
 - React to nuclear attack
- During rehearsals in MOPP4, did my unit adequately practice movement?
- Will CCD measures used reduce the risk of attack as a target of opportunity?
- Are all known contaminated areas marked for bypass?

TC 3-10

- Did my unit adequately rehearse the decontamination plan?

Execution Phase

- If my unit is in a contaminated area, do I move?
- Have I encountered unexpected contamination and do I now cross or bypass it?
 - Is my unit maintaining MOPP discipline?
 - Have contaminated areas been marked for bypass?
 - Decontamination execution:
 - Has combat power been adversely affected by contamination?
 - Is the decontamination through put fast enough, or do I allocate more resources or accept more risk?

FIRE SUPPORT

Planning

- Does my plan have NBC capable units as high payoff targets?
- Does my plan consider that fire support is less responsive when crews are in MOPP3 or 4?
- Does my plan consider that calls for indirect fire increase under NBC conditions?
- Did I plan for smoke?

Preparation Phase

- Has my unit rehearsed calls for fire while wearing MOPP4?
- Have I adequately exercised/rehearsed the fire support system while crews were wearing MOPP 3 or 4?
- Was smoke execution considered during rehearsals?

Execution Phase

- Have I engaged all NBC capable/high-payoff targets in my AO?
- When in MOPP4, is fire support responsive or, should I:
 - Displace them to clean areas?
 - Reduce their level of protection and accept risk of casualties?
- Did I use smoke?

AIR DEFENSE

Planning Phase

- Does my plan consider using smoke to help restrict aerial observation?
- Does my plan include engaging air targets forward (Active defense/avoidance)?

Preparation Phase

- During rehearsals in MOPP4, did my unit adequately practice scanning and target acquisition?
- Under a high nuclear threat, are all weapon systems and communications cables buried?
- Have I adequately exercised/rehearsed the air defense system while crews were wearing MOPP3 or 4?

Execution Phase

- In MOPP3/4, is air defense responsive, or should I:
 - Displace them to clean areas?
 - Reduce their level of protection and accept risk of casualties?
- Is smoke restricting aerial observation?

COMBAT SERVICE SUPPORT

Planning

- Does the chemical unit supporting my force require sustainment and security support?
- Does my plan consider distribution of NBC equipment?
- Does my plan include transportation to move CDE?
- Does my plan consider that maintenance and transportation operations under NBC conditions are significantly slower?
- Does my plan consider that operations under NBC conditions significantly limit health service support capability?

Preparation Phase

- Did my unit adequately rehearse the CDE resupply plan?
- Are all mission essential supplies covered or placed indoors?
- Have I adequately exercised/rehearsed the CSS system while crews were wearing MOPP4?

Execution Phase

- Since going into MOPP4, are my CSS assets able to keep pace with the battle?
- Will temporary relief from MOPP4 be sufficient or should I lower MOPP levels for a prolonged period and risk casualties?

Table A-1. Electro-optical systems defeated by smoke

Spectral Region	Electro-Optical System	Type of Smoke
Visible 0.40 - 0.70 μm	Viewers: -Daylight Sights -Naked Eye -Camera Lens -Binoculars/Standard Optics -Battlefield TV -CLOS Missiles (for example AT-3) -Night Sights	All
Near-IR 0.70 - 3.00 μm	Viewers: - SACLOS Missiles (for example, AT-4 and AT-5) - Night Sights	All
	Sensors: - Laser Designators - Laser Range Finders	All
Mid-IR 3.00 - 5.00 μm	Viewers: - Passive Thermal Sights	WP, PWP, RP, Dust, Type II IR Obscurant
Far-IR 8.00 - 14.00 μm	Sensors: - Thermal Imagers - Terminal Homing Missiles	WP, PWP, RP, Dust, Type II IR Obscurant
MM Wave and Lower Frequency 6 Ghz - 140 Ghz	Radar Radio Microwaves	WP and PWP (instantaneous Interruption Only), Developmental Obscurants
X-Ray and Higher Frequency	Directed EMP Nuclear Weapons	Oil Smoke (Attenuation Only), Developmental Obscurants

NOTES: